



South Carolina
Department of Education

Together, we can

SASI[™] CATE Student Reporting Procedures Guide

Office of Career and Technology Education
South Carolina Department of Education

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State Superintendent of Education

Revised

Changes Effective 2009-10 School Year

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Preface

This student reporting procedures manual is the Office of Career and Technology Education's (OCTE) official guide for SASI data entry and reporting. Data from schools are collected annually through SASI to meet state and federal requirements: the career center report card performance measures and high school report card career and technology education (CATE) student performance indicators under the South Carolina Education Accountability Act of 1998 and the eight core indicators of performance under the Carl D. Perkins Career and Technical Education Act of 2006 (Perkins IV).

It is critical that data reported to the South Carolina Department of Education (SCDE) be complete and accurate. State and school district funding are affected by the data submitted. School districts, high schools, and career centers must collaborate and communicate to review data at the local level before submitting data to the SCDE. Your efforts in ensuring that your school's and district's data are of the highest quality possible are appreciated.

Note: All shaded text in this document appears verbatim on the SASI screens.

DEADLINES

The deadlines for submission of CATE data are as follows:

Student placement follow-up report..... April 15, 2010

End-of-the-year report due with the SASI fourth quarterly data collection

NOTICE

The activity/course codes specified in this document are also listed in two other South Carolina Department of Education documents related to course sequencing and educator credentials: *South Carolina Department of Education Activity Coding System for SASI* and *Required Credentials for Professional Staff Members in the Instructional Programs of South Carolina's Public Schools*. Therefore, when course titles change, titles/codes are deactivated, or new titles/codes are created, those changes will be made not only in this document but in these two other SCDE documents as well.

This document is also available online at:

<http://www.ed.sc.gov/agency/offices/cate/datacollection/DataCollection.html>.

Data Collection Notes of Interest

Data Checklist:

CATE Atom:

- ❖ Ensure that the assigned **CIP Code** is from the listing in Appendix C.
- ❖ Ensure that the **Concentrator** field is correctly coded.
- ❖ Ensure that the **Completer** field is correctly coded.
- ❖ Ensure that the seven-digit SIDN (school identification number, sometimes referred to as the BEDS code) is correctly entered in the **Remote** field (if applicable).
- ❖ Ensure that the **Diploma** field has been completed for all twelfth-grade students.
- ❖ Ensure that the correct placement code has been entered in the **CATE Placement** field for each prior-year completer when doing student placement follow-up.

Basic Scheduling Briefcase, Sections Atom:

- ❖ Ensure that all sections of each particular CATE course taught at the career center have the last three digits of the career center's seven-digit SIDN (school identification number, sometimes referred to as the BEDS code) correctly entered in the **Owner** field. Accurate SIDN numbers will allow the career center to be identified as teaching the particular course(s).

General Notes:

- ❖ Ensure that each CATE course has been assigned an approved course code from the listing in Appendix C.
- ❖ GED – Districts will have an opportunity to submit by September 1 a listing of high school-aged students who have completed the requirements to receive a GED credential.
- ❖ Custom/Cross-Cluster program(s) will need prior approval from CATE staff before assignment of a CIP code. See Appendix C for additional information.

SASI Career and Technology Education Student Data

CATE ATOM SCREEN

Last Name		First Name		Middle Name	Grd	Gen	Student ID
Sgl Parnt		Dpld Hmkr	Exceptions	CATETBL	CIP Code	CATE Concentrator	Completer
Yr Comp		Remote	Diploma	CATE Placement	Placement Employer		
Placement Phone		Placement Job Title		Placement Supervisor			
Placement Start Date		Placement Higher Ed Name		Placement Higher Ed Program			
Placement Military Branch		Placement Military Training		AtomDate			
Certification 1	Certification 2	Certification 3					

FIELD DESCRIPTIONS AND ENTRIES ON CATE ATOM

Single Parent

Sgl Parnt

The term "single parent" refers to a student: either a pregnant female student who is unmarried or a male or female student who is unmarried or legally separated from a spouse and has a minor child or children of whom he or she has either full custody or joint custody.

Entry: Y ("Yes") if applicable

Displaced Homemaker

Dpld Hmkr

The term "displaced homemaker" refers to an individual who has worked primarily without remuneration to care for a home and family and for that reason has diminished marketable skills, who has been dependent on the income of another family member but is no longer supported by that income, or who is a parent whose youngest dependent child will become ineligible to receive assistance under Part A of Title IV of the Social Security Act within two years after the date on which the parent applies for assistance under this title and who is unemployed or underemployed and is experiencing difficulty in obtaining or upgrading employment.

Entry: Y ("Yes") if applicable

Exceptions

Exceptions

Data are to be entered on an annual basis for all students for Perkins accountability indicators and report card measures.

Entry: I or W

- ▶ Enter **I** if the student has an IEP (individualized education program) indicating:
 1. The student will **not** complete the requirements needed to obtain either a South Carolina High School Diploma or a South Carolina High School Certificate.

and/or

 2. All of the core standards for a specified CATE course/program will **not** be taught (i.e., mastery of only a portion of the core standards in a program is appropriate for the student).

Use the exception code **I** *exclusively* for students whose IEPs indicate one or both of the above conditions. Many students with IEPs **do** receive the instruction necessary to complete the core CATE course standards and the requirements for a South Carolina High School Diploma/Certificate, and these students *should not be coded as "I"*.

- ▶ Enter **W** if the student withdrew from the CATE program or from the school during the school year.

CATE TBD

CATE TBD

*****NEW FIELD*****
*****DESCRIPTION UNDER CONSTRUCTION*****

Classification of Instructional Programs Code

CIP Code

The Classification of Instructional Programs (CIP) codes designate the specific CATE programs and are used for federal reporting and for assessing the federal Perkins accountability indicators. Every student identified as a concentrator must be assigned a CIP code.

Entry: six-digit CIP code

▶ Guidelines for Assigning CIP Codes

- A. Use **only** approved CIP codes (see Appendix C).
- B. Assign a CIP code when the student has earned 3 Carnegie units of credit in a state-recognized CATE program.
- C. **Do not** use postal codes (zip codes) in the **CIP Code** field.
- D. Do not assign a CIP code to a student who enrolls in CATE courses for interest and has no plans to concentrate in a CATE program.
- E. Do not change a student's CIP code if he or she completes one CATE program in the eleventh grade and enrolls in the first level of another CATE program in the twelfth grade. CIP codes may be modified, however, to reflect revisions to the student's program of study.

- F. Select the CIP code on the basis of the student's postgraduation plans if he or she completes two programs.
- G. **Do not use the CIP Code field for any purpose other than to designate the specific CATE program.**

CATE Concentrator

CATE Concentrator

A **CATE Concentrator** is a secondary student with an assigned CIP code who has earned 3 Carnegie units of credit in a state-recognized CATE program. A state-recognized CATE program must be comprised of a sequence of career and technology education courses leading to a career goal and must include a minimum of 4 Carnegie units of credit.

Entry: Y ("Yes") if applicable

Completer

Completer

A **Completer** is a CATE concentrator who has earned **all** of the required units in a state-recognized CATE program identified by the assigned CIP code.

Entry: Y ("Yes") if applicable

Note: A CATE concentrator pursuing a 4-unit CATE program would be designated a **Completer** when the 4th unit is earned.

A CATE concentrator pursuing a CATE program offering 6 units would be designated a **Completer** when the 6th unit is earned.

Completion Year

Yr Comp

The **Yr Comp** field will indicate the year in which the student completed the required units in a state-recognized CATE program. For school year 2009-10 the entry will be **2009**.

Entry: four-digit year

Remote School Number

Remote

The **Remote** field specifies the location where the CATE program is offered. An entry should be made in this field **only** if the program is offered at a location other than the student's high school. This entry will identify the other high school or the career center that offers the particular program.

- **Note:** Leave this field blank if the program is offered at the student's home high school.

Entry: seven-digit SIDN (school identification number, sometimes referred to as the BEDS code)

Example: Jane Doe is a student at ABC High School (school SIDN – 0102003) and attends DEF Career and Technology Center (school SIDN – 0102995) where she is concentrating in the Culinary Arts program.

In the CATE Atom for Jane Doe who has been designated as a **CATE Concentrator** and assigned the **CIP Code** 520905 the **Remote** field would be an entry of 0102995.

Diploma

Diploma

Enter diploma data for **all** twelfth-grade students. The data for each student will be used to assess the school's and district's performance for the Perkins accountability indicators and the career center report card measure for high school graduation. Indicate in this field whether each twelfth-grade student met the criteria for receiving a South Carolina high school diploma or a state certificate.

- ❖ For a student to receive a state high school diploma, the student must: (1) complete a minimum of twenty-four units of credit as prescribed and (2) meet the standard on all subtests of the Exit Examination.
- ❖ For a student to receive a state high school certificate, the student must: (1) complete a minimum of twenty-four units of credit as prescribed and (2) have failed to meet the standard on all subtests of the Exit Examination.

- ▶ **Note:** For any twelfth-grade student whose **Diploma** field is left blank and who meets all graduation requirements during the summer and receives a South Carolina high school diploma prior to the next school year, the school may change the entry code to "Y" and send a notification letter to the Office of Career and Technology Education by September 1. The notification should include the student's name, SUNS identification, and a request to update the **Diploma** field.

Entry: Y ("Yes") only if the student received a South Carolina high school diploma or state certificate.

CATE Placement Code

CATE Placement

School districts and career centers are required by South Carolina law (S.C. Code Ann. § 59-53-1960) and by State Board of Education Regulation 43-234 to survey their CATE completers ten months after graduation to determine their placement status with regard to employment, postsecondary education, or military service. A record of the responses to this survey must be maintained by the districts/career centers for a period of three years. The survey records should contain sufficient information to allow for the verification of all reported placements.

In order to be available for placement, students must be program completers and must have graduated.

Entry: *(one of the following CATE placement codes as appropriate)*

- A – Employed, Related**
- B – Employed, Unrelated**
- C – Continuing Education or Postsecondary Education**
- D – Military**
- E – Unemployed or Not Seeking Employment**
- F – Not Available for Placement (Status Unknown, Deceased, Incarcerated, or Medical Disability)**
- G – Still in High School**

Placement Information Necessary for Verification

- ▶ For students placed in **employment (placement code A or B)**

Placement Employer

Entry: name of the company (35-character limit) where the student was placed after graduation

Placement Phone

Entry: phone number (15-character limit) of the student's employer

Placement Job Title

Entry: title of the job (25-character limit) in which the student was placed after graduation

Placement Supervisor

Entry: name of the supervisor (25-character limit) within the company where the student was placed after graduation

Placement Start Date

Entry: student's start date for placement in employment after graduation

- ▶ For students placed in **higher education (placement code C)**

Placement Higher Ed Name

Entry: name of the postsecondary institution (25-character limit) the student attended after graduation

Placement Higher Ed Program

Entry: name of the program (25-character limit) at the postsecondary institution to which the student was admitted

- ▶ For students placed in the **military (placement code D)**

Placement Military Branch

Entry: name of the military branch (30-character limit) in which the student enlisted after graduation

Placement Military Training

Entry: name of the type of military training (25-character limit) the student received from the military branch in which he or she enlisted after graduation

Placement-level data will be used to assess the placement indicator required by Perkins IV and the career center report card measure for placement. As mandated in Section 59-53-1960 of the Code of Laws of South Carolina, in order for a job preparatory program other than occupational agriculture to continue to exist, 50 percent of its graduates who are available for placement must be placed during the prior three years in the area in which they were trained. The placement data reported for school year 2008-09 will be compiled with the data reported for the previous two years to obtain the percentage of students placed in a related area for the three-year period.

Students must be advised prior to enrollment in a job preparatory program of the possible discontinuation of the program and of the employment outlook for program graduates. Students enrolling in CATE programs that are not preparatory for employment must be clearly advised of this fact by the school district.

Industry Certification

Certification 1, Certification 2, Certification 3

Provide certification information for your CATE students by selecting the appropriate certification(s) in the drop-down box on the SASI screen.

Web addresses are provided both for your information and for the documentation of much of the text that follows here. These URLs were operational as of the writing of this document. The South Carolina Department of Education is not responsible for changes made to Web addresses or content after this manual is published.

01 – CompTIA A+

CompTIA A+ is an international industry credential that validates the knowledge of computer service technicians. Earning CompTIA A+ certification proves that a candidate has a broad base knowledge and competency in core hardware and operating system technologies including installation, configuration, diagnosing, preventive maintenance, and basic networking.

<http://www.comptia.org>

02 – Academy of Info. Technology

The Academy of Information Technology (AOIT) curriculum introduces students to the broad career opportunities in today's digital workforce and equips them with the personal, analytical, technical, and communications skills they need.

<http://www.naf.org>

03 – ARI – Industry Competency Exams (ICE)

The Air-Conditioning and Refrigeration Institute (ARI) certification programs are industry developed, driven, and managed for entry-level technicians who install, service, and maintain HVACR equipment.

<http://www.ari.org>

[04—discontinued]

05 – ASE – Auto Collision Repair

The National Institute for Automotive Service Excellence (ASE) is responsible for the Automotive Technician Training Certification Program. The purpose of this certified program is to improve the quality of training offered for students at the high school level. There are four areas in which these students can obtain ASE certification in auto collision repair: Structural Analysis and Damage Repair, Mechanical and Electrical Components, Painting and Refinishing, and Non-Structural Analysis and Damage Repair.

<http://www.asecert.org/>

06 – ASE – Auto Technology

The National Institute for Automotive Service Excellence (ASE) is responsible for the Automotive Technician Training Certification Program. The purpose of this certified program is to improve the quality of training offered for students at the high school level. There are four areas in which these students can obtain ASE certification in auto technology: Brakes, Electrical/Electronic Systems, Engine Performance, and Suspension and Steering.

<http://www.asecert.org/>

07 – AWS

The American Welding Society (AWS) certifies the skills of engineers, inspectors, technicians, and welders. The AWS offers various certification programs to meet a variety of needs, providing students with specialized preparation to expand their knowledge base and to work with diverse codes, standards, and specifications industry wide.

<http://www.aws.org>

08 – Academy of Finance

The National Academy Foundation's Academy of Finance (AOF) introduces students to the broad range of career opportunities in the financial services industry and gives them new choices for their future.

<http://www.naf.org>

09 – Academy of Hospitality and Tourism

The Academy of Hospitality and Tourism (AOHT) provides public high school students with the requisite knowledge and skills for a successful career in one of the world's largest service industries through a curriculum that provides an in-depth look at all aspects of tourism and hospitality, including coursework in business, geography, hospitality, and economics.

<http://www.naf.org>

10 – Electronics Technician

The Electronics Technicians Association (ETA) International is a not-for-profit worldwide professional association for electronics technicians. The ETA offers two levels of basic ETA certification: (1) certification as a SET (Student Electronics Technician) for high school students and (2) certification as a CETa (Certified Electronics Technician, associate) for individuals who have less than two years' experience or trade school training as electronics technicians. All technicians must pass the associate-level requirements before they can qualify to sit for the full (Journeyman) CET certification.

<http://www.eta-i.org/>

[11—discontinued]

12 – Certified Nurse Aide

The South Carolina Department of Health and Human Services (SCDHHS) has contracted with Pearson VUE to develop, score, and report the results of the NNAAP™ (National Nurse Aide Assessment Program) Examination for the South Carolina Nurse Aide Registry. The exam is a measure of nurse aide-related knowledge, skills, and abilities. It is made up of both a written examination and a skills evaluation. All new nurse aide candidates applying to take the NNAAP™ Examination in South Carolina must have successfully completed a state-approved nurse aide training program.

<http://www.Pearsonvue.com>

[13—discontinued]

14 – Cisco Certified Network Associate

Certification as a Cisco Certified Network Associate (CCNA) indicates that an individual has a foundation in and apprentice knowledge of networking. CCNA certified professionals can install, configure, and operate LAN, WAN, and dial access services for small networks (100 nodes or fewer), including but not limited to use of these protocols: IP, IGRP, Serial, Frame Relay, IP RIP, VLANs, RIP, Ethernet, Access Lists.

<http://www.cisco.com>

15 – Emergency Medical Technician

In South Carolina, there are three levels of Emergency Medical Technician (EMT) Certification: Basic, Intermediate, and Paramedic. To be *initially* certified as an EMT at any level *for the first time in this state*, the candidate must successfully complete the appropriate South Carolina-approved EMT training program and pass the appropriate level National Registry examination. This certification is available for high school seniors who have completed a South Carolina DHEC (Department of Health and Environmental Control) approved EMT program.

<http://www.scdhec.gov/health/ems/certification.htm>

[16—discontinued]

17 – EPA Section 608

Environmental Protection Agency (EPA) Section 608 technician certification is required in order for an individual to service building air conditioning and refrigeration systems and to purchase refrigerants. There are four types of EPA-Approved Section 608 certification, each involving a knowledge of EPA regulations relating to refrigerant recovery.

<http://www.acca.org>

18 – First Responder

The American Red Cross offers the course *First Aid—Responding to Emergencies with Adult, Child, and Infant CPR/AED* to provide the citizen responder with the knowledge and skills necessary to help sustain life and minimize the consequences of injury or sudden illness until advanced medical help arrives. This program is designed primarily for use in high schools, colleges, universities, and other settings that require a curriculum of greater length than the American Red Cross FA/CPR/AED Program. In order to receive certification, students must participate in all skill sessions and scenarios, demonstrate competency in all required skills, and correctly answer at least 80 percent of the questions in the appropriate sections on the written exam.

<http://www.redcross.org/>

Training is also offered and administered by the DHEC Office of Emergency Medical Services (EMS) under a grant from South Carolina Department of Public Safety and the National Highway Traffic Safety Administration. Actual course instruction is provided by South Carolina's four [EMS Regional Offices](#). The comprehensive training program includes the revised Department of Transportation's 40-hour First Responder course, along with an additional 4-hour South Carolina EMS-imposed oxygen administration training course. This curriculum provides the student with vital training that will permit the rendering of lifesaving techniques at roadside until EMS arrives.

http://www.scdhec.gov/health/ems/first_responder.htm

19 – IC 3

The Internet and Computing Core Certification (IC³) program ensures that students have the knowledge and skills required for basic use of computer hardware, software, networks, and the Internet. IC³ is a gateway to advancement in education, employment, or other certification programs.

<http://www.certiport.com>

[20—discontinued]

[21—discontinued]

[22—discontinued]

23 – Microsoft Office Specialist

The Microsoft Office Specialist (MOS) program provides computer program literacy, measures proficiency, and identifies opportunities for skills enhancement. Successful candidates receive the MOS certificate, a credential that is recognized worldwide as proof that an individual has the desktop computing skills he or she needs to be able to work productively and efficiently.

<http://www.microsoft.com/learning/mcp/officespecialist/default.asp>

24 – Ntl. Health Care Found. Skills Standards

The National Healthcare Foundation Skills Assessment/Certificate Program is an entry-level certification that verifies student mastery of the knowledge and skills that provide the foundation for all health careers (National Healthcare Foundation Standards.) It is recommended that in addition to the online assessment, the student will complete a portfolio. This skill assessment was developed by National Consortium for Health Science Education, the health science career cluster advisory group. Students seeking this certification should have mastered the National Healthcare Foundation Standards delivered through South Carolina secondary schools' health science curriculum.

<http://www.healthscienceconsortium.org>

25 – NCCER – A/C Ref. Technology

26 – NCCER – Carpentry

27 – NCCER – Electricity

28 – NCCER – Mechatronics

29 – NCCER – Masonry

30 – NCCER – Plumbing

31 – NCCER – Welding Technology

[56 – NCCER – Core]

[58 – NCCER – NCCT National Construction Career Test]

The National Center for Construction Education and Research (NCCER) is a not-for-profit education foundation that was created in 1995 to address the severe workforce shortage facing the industry and to develop a standardized training process and curricula. Among its services, the NCCER develops curricula and conducts programs of education and training for secondary, post secondary, and adult education. In addition, it provides assessments to evaluate the journey-level knowledge and skills of experienced craftspeople as part of the National Craft Assessment and Certification Program (NCACP). NCCER also provides academic assessments and credentialing for high school career and technical education

students as part of the standardized industry approved curricula and National Construction Career Tests (NCCT).

<http://www.nccer.org>

32 – CompTIA Network+

CompTIA Network+ certification is an international industry credential that validates the knowledge of networking professionals.

<http://www.comptia.org>

33 – NIMS

A National Institute for Metalworking Skills (NIMS) credential is recognition that an individual's competencies have been validated against a set of industry-written skill standards. The credential is awarded on the basis of performance tests and related theory exams. Because the performance requirements and exams are the same nationwide, the credential is portable.

<https://www.nims-skills.org/web/nims/home>

34 – Outdoor Power Equipment

The Outdoor Power Equipment Technician Certification Program, conducted by the Equipment and Engine Training Council (EETC), offers technicians industry-sanctioned certification on the basis of tests given year-round across the United States. Tests are offered in 2-cycle engines, 4-cycle engines, drivelines/hydraulics/hydrostatics, electrical systems, compact diesel engines, and generators.

<http://www.eetc.org/>

35 – Pharmacy Technician

Two organizations, the Pharmacy Technician Certification Board (PTCB) and the Institute for the Certification of Pharmacy Technicians (ExCPT exam), administer national certification examinations. Certification is voluntary in most states, but is required by some states and employers. Some technicians are hired without formal training, but under the condition that they obtain certification within a specified period of time. To be eligible for either exam, candidates must have a high school diploma or GED, no felony convictions of any kind within 5 years of applying, and no drug or pharmacy related felony convictions at any point. Employers, often pharmacists, know that individuals who pass the exam have a standardized body of knowledge and skills.

<http://www.ptcb.org>

<http://www.nationaltechexam.org/>

[36—discontinued]

37 – ProStart

The ProStart program, offered through participating high schools through the South Carolina's Tourism and Hospitality Educational Foundation, utilized as an industry-driven curriculum designed by the Educational Foundation of the National Restaurant Association to teach, test, and award industry-recognized certificates to students meeting high standards in hospitality education. This two-year program provides instruction in twenty-five subject areas, ranging from basic food preparation, accounting and cost control, to sanitation and workplace safety.

<http://www.schospitality.org/>

<http://prostart.restaurant.org/>

[38—discontinued]

39 – S.C. Cosmetology License

The Board of Cosmetology licenses and regulates cosmetologists, cosmetology instructors and schools, estheticians, and nail technicians.

<http://www.llr.state.sc.us/POL/Cosmetology>

40 – American Red Cross-Babysitting

Designed for eleven- to fifteen-year-olds, the Red Cross's Babysitter's Training Course teaches students to perform first aid, to select safe and age-appropriate toys and games for children, to handle bedtime issues, and to use appropriate diapering and feeding techniques.

<http://www.redcross.org/services/hss/courses/babyindex.html>

[41—discontinued]

[42—discontinued]

43 – Certified Rooms Division Specialist

The Lodging Management Program (LMP) high school curriculum provides eleventh- and twelfth-grade students with the classroom learning and real-life work experiences they need to begin a career in the hospitality industry. The Certified Rooms Division Specialist (CRDS) is a professional certification for graduates of the LMP. To qualify for the CRDS designation, graduating high school seniors must complete and pass the LMP exams for both Year 1 and Year 2, work in the lodging industry for at least thirty days, and obtain the signature of the general manager at the property where they are employed.

<http://www.lodgingmanagement.org/>

44 – First Aid/CPR/AED

The American Heart Association and the American Red Cross offer a variety of training courses for the workplace and healthcare professionals. Courses are designed to teach the skills of CPR for victims of all ages, use of an automated external defibrillator, relief of choking, and first aid skills. Courses are intended for participants who provide healthcare to family, patients, or co-workers in a wide variety of settings and can be tailored to the needs of specific groups and individuals.

American Heart Association:

<http://www.americanheart.org>

American Red Cross:

<http://www.redcross.org>

45 – CompTIA DHTI +

CompTIA Home Technology Integrator (HTI+) certification is a cross-industry, vendor-neutral credential providing recognition that a technical professional has attained a standard of excellence in the integrated home networks industry.

<http://certification.comptia.org/dhti/default.aspx>

46 – HVAC Excellence

The HVAC Excellence Student Outcome Assessment Program identifies high school students who have successfully attained the knowledge for entry-level positions in the HVACR industry. The Heating, Electrical, Air Conditioning Technology (HEAT) exam is designed to measure the students retained knowledge of heating, electrical, and air conditioning theory and application. Students who pass the examination are awarded a certificate of achievement.

<http://www.hvacexcellence.org/heat.htm>

47 – Oracle

The Oracle Academy provides schools and school districts with the tools required to prepare students for twenty-first-century careers in technology. The program includes such courses as Database Programming with SQL, in which students gain an understanding of relational databases through the powerful Structured Query Language (SQL). The SQL commands, functions, and operators supported by Oracle as extensions to standard SQL are emphasized. The Database Programming with SQL portion of the Academy curriculum is designed to help prepare students to pass the Oracle Certified Professional (OCP) exam, "Introduction to Oracle9i SQL Exam." As part of the Academy, many students will want to take the OCP exam because it is the industry standard for proficiency with SQL.

<http://academy.oracle.com>

[48—discontinued]

49 – ServSafe

The National Restaurant Association Educational Foundation (NRAEF) offers an industry certification to high schools through its ServSafe program. ServSafe employee-level certification is available to South Carolina high school students. Recognized by the food service industry nationwide, this certification offers a number of benefits to the students by educating them in food safety and sanitation and improving their marketability in the workforce. ServSafe managers-level certification is available to Culinary Arts students and can be offered for dual credit or articulated to higher education.

<http://www.nraef.org/servsafe/>

50 – The Real Game

The Get Real Game focuses on the transition from high school to postsecondary life. Using highly interactive activities, students strategize ways of acquiring necessary skills, training, education, and work experience to achieve their future goals. This program offers an opportunity for students to practice and hone the career and life-planning skills necessary for the twenty-first century. In the last session of the program, students create their own one-year Action Plan and Budget Plan. When they complete this final session, they receive a certificate of completion.

<http://www.realgame.org>

51 – Electrocardiographic (EKG) Technician

The American Society of Phlebotomy Technicians (ASPT) provides training and certification in all areas of healthcare in which phlebotomists are now involved. As do all individuals who earn ASPT certification, those who hold ASPT certification as an EKG Technician must complete 6 hours of continuing education yearly in order to maintain that credential.

<http://www.aspt.org>

52 – Phlebotomist

The American Society of Phlebotomy Technicians (ASPT) provides training and certification in all areas of healthcare in which phlebotomists are now involved. As do all individuals who earn ASPT certification, those who hold ASPT certification as an EKG Technician must complete 6 hours of continuing education yearly in order to maintain that credential.

<http://www.aspt.org>

[53—*discontinued*]

54 – ADDA – Certified Apprentice Drafter

The American Design Drafting Association (ADDA) Certification Program offers curriculum certification to schools as a means of quality assurance that benefits both education and industry. Curriculum certification through ADDA meets or exceeds the requirements set forth in most state and federal guidelines to receive funding for drafting and design programs. ADDA also offers professional certification to individuals through its Drafter Certification Program, which is open to all individuals, regardless of experience and formal education.

<http://www.adda.org>

55 – S. C. Nail Technician License

The Board of Cosmetology licenses and regulates cosmetologists, cosmetology instructors and schools, estheticians, and nail technicians.

<http://www.llr.state.sc.us/POL/Cosmetology>

56 – NCCER – Core

[see entries 25–31, above]

57 – Sports Safety Training

Sport Safety Training is designed to help coaches, athletic trainers and athletic trainer aides identify and eliminate potentially hazardous conditions in various sports environments, recognize emergencies and make appropriate decisions for first aid care. This certification through the American Red Cross includes Sports Injury Prevention and First Aid Course with additional training available in adult and child CPR and automated external defibrillation.

<http://www.redcross.org>

58 – NCCER – NCCT National Construction Career Test

[see entries 25–31, above]

59 – South Carolina Early Childhood Credential

This is an introductory course in early childhood education and includes the basic information and competencies a person would need to work with young children in a group setting. Individuals may enroll at their local technical college to take the course.

http://www.sc-cccd.net/SC_Early_Childhood_Credential.htm

60 – Cisco Certified Entry Networking Technician

The Cisco CCNA network associate certification validates the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks, including implementation and verification of connections to remote sites in a WAN. This new curriculum includes basic mitigation of security threats, introduction to wireless networking concepts and terminology, and performance-based skills. This new curriculum also includes

(but is not limited to) the use of these protocols: IP, Enhanced Interior Gateway Routing Protocol (EIGRP), Serial Line Interface Protocol Frame Relay, Routing Information Protocol Version 2 (RIPv2), VLANs, Ethernet, access control lists (ACLs).

www.cisco.com/go/ccna

61 – Microsoft Certification Application Specialist

The Microsoft Certified Application Specialist (MCAS) credential is a globally recognized standard that validates skills with using the 2007 Microsoft Office system and Windows Vista. The successor to the Microsoft Office Specialist (MOS) credential, the Microsoft Certified Application Specialist credential meets the demand for the most up-to-date skills on the latest technologies from Microsoft. The MCAS credential validates the skills that individuals and organizations depend on. Candidates who successfully complete the program by passing a certification exam prove that they meet globally recognized performance standards and are able to work productively and efficiently.

<http://www.microsoft.com/learning/mcp/msbc/mcas/benefits/default.mspx>

62 – Adobe Certified Associate

For those seeking employment that requires demonstrating the ability to use digital media needed to plan, design, build, and maintain effective communications, Adobe Certified Associate is a certification program that validates the skills of job seekers.

<http://www.certipoint.com/portal/common/documentlibrary/AdobeDataSheet.pdf>

Data Extracted from Other SASI Atoms Needed for Reporting of Perkins Data

Economically Disadvantaged

The data for this special population will be extracted from the **Meals** field located in the Student Atom. The **Meals** field indicates whether the student is eligible or not eligible for free or reduced price meals.

Individual with a Disability

The data for this special population will be extracted from the **EFA Primary** field located in the EFA/EIA Classification Atom. Each student enrolled must be assigned an EFA primary code.

LEP (Limited English Proficient)

The data for this special population will be extracted from the **ESL** field located in the Student Atom. The **ESL** field indicates the student's proficiency level in English as defined in the NCLB User's Guide in SASI.

Migrant

The data for this special population will be extracted from the **Migrant** field located in the Student Atom. Migrant status is based upon the following definition:

A migratory student is a student who is, or whose parent, spouse, or guardian is, a migratory agricultural worker, including a migratory dairy worker, or a migratory fisher, and who, in the preceding 36 months, in order to obtain, or accompany such parent or spouse in order to obtain temporary or seasonal employment in agricultural or fishing work: has moved from one school district to another; or in a State that is comprised of a single school district, has moved from one administrative area to another within such district; or resides in a school district of more than 15,000 square miles, and migrates a distance of 20 miles or more to a temporary residence to engage in a fishing activity.

Diploma Earned

The **Diploma Earn** field indicates whether the student received a state diploma or a state certificate and is located in the Student Supplemental Atom.

SASI Module

BASIC SCHEDULING BRIEFCASE, SECTIONS ATOM SCREEN

Owner

All sections of each particular CATE course taught at the career center must have the last three digits of the career center's seven-digit SIDN (school identification number, sometimes referred to as the BEDS code) correctly entered in the **Owner** field.

Entry: last three digits of the career center's seven-digit SIDN

Example: Jane Doe is a student at ABC High School (school SIDN – 0102003) and attends DEF Career and Technology Center (school SIDN – 0102995) where she is enrolled in Culinary Arts 1 (5720) and Culinary Arts 2 (5721) taught by teacher Kate Smith.

In the Sections Atom for the Culinary Arts 1 and Culinary Arts 2 courses taught by Kate Smith the **Owner** field would be an entry of 995 which would identify that the courses are taught at the career and technology center not at the high school.

The screenshot shows the 'Sections' window in the SASI system. It contains several input fields for course and teacher information, and a table for the student list.

Section ID <> **Period** **Ending** **Term** **Lo** **Hi** **Max** **Tot** **M** **F** **Opn** **Pre**

Course **Course Title** **Room** **Credit**

Tch# **Teacher Name** **No Ovr** **Excl Att** **Excl Grd** **Gen Op** **Trm House** **Team** **Owner**

Lng Tght **Inst Type**

Student List **Dropped Students**

Student ID	Student	Grade	Start Date	T/A	Override

Navigation buttons: < > F > Close Find

Collecting and Reporting Accurate Data

The district technology contact that is responsible for submitting SASI data to the SCDE plays an important role in the data-collection process. The following are basic instructions with regard to the collection and reporting of CATE data:

- A. Transfer grades to the student course history file before you run the query to submit data to the SCDE. Your failure to transfer grades first will result in incomplete data, which will affect your district's funding.
- B. Perform a data record check while you are submitting the data to the SCDE to ensure that your datasets are complete. If "0" records are transmitted, the SCDE has received no data.
- C. Use only **uppercase** letters for academic and unit tags. Though the SASI system is not case sensitive, other systems utilized by SCDE offices to analyze the data received *are* case sensitive. **Your failure to use uppercase letters for academic and unit tags may result in inaccurate data.**
- D. Submit your CATE data on or before the deadlines:

Student placement follow-up report.....April 15, 2010

End-of-the-year reportdue with the SASI fourth quarterly data collection

Please be reminded that the queries for submitting data to the SCDE will not be available after these dates.

QUERIES TO VERIFY DATA

The following queries are provided to assist you in verifying the accuracy of your data. Please remember to use **only** approved course codes and CIP codes (see Appendix C).

CIP Code

ASTU USCO ASCH DistNum 1,SchoolNum LastName FirstName MiddleName Grade
CIPcode Concnr Completer CompleteYr RemoteSch Diploma SORT CIPcode

Graduation

ASTU USCF USCO ASCH DistNum 1,SchoolNum LastName FirstName MiddleName Grade
DiploEarnd Diploma IF Grade =12

Note: Be sure to select "Show Empty Records" in order to verify all twelfth grade students.

Program Completers

ASTU USCO ASCH DistNum 1,SchoolNum LastName FirstName MiddleName Grade
CIPcode Completer CompleteYr RemoteSch Diploma IF Completer ='Y' SORT CIPcode

CATE Placement

ASTU USCO ASCH USCF DistNum 1,SchoolNum LastName FirstName MiddleName Grade
 CIPcode Completer CompleteYr RemoteSch DiploEarnd Diploma CATEPlace IF Grade
 =12 AND Completer ='Y' SORT CIPcode

Course/Teacher Location

AMST Course CrsTitle TchName OwnerSch

Special Populations

ASTU USCO SSCB ASCH DistNum 1,SchoolNum LastName FirstName MiddleName
 Grade CIPcode SinglePare DispldHmak EngProf FreeMeals Migrant EFAPrimary

Note: Be sure to select “Show Empty Records” in order to verify special population data.

CATE Teacher/Course List

ASTU ACHS ASCH 3,DistNum 1,SchoolNum TchName CrsTitle Course IF Course IN
 ['49990000' .. '6999ZZZZ']

Multiple Courses

ASTU ACHS ASCH LastName FirstName MiddleName 1,Grade Course CrsTitle
 2,CredEarned TchName IF Course IN ['51000000' .. '5100ZZZZ'] OR Course IN
 ['51740000' .. '5174ZZZZ'] OR Course IN ['51220000' .. '5122ZZZZ'] OR Course IN
 ['54000000' .. '5400ZZZZ'] OR Course IN ['50310000' .. '5031ZZZZ'] OR Course IN
 ['50330000' .. '5033ZZZZ']

SCDE CATE Personnel Contact Information

Report Card Measures Perkins Indicators Accountability Progress Report	Data Collection	Special Populations including Nontraditional
<p>Joe Williams 803-734-8456 jwilliam@ed.sc.gov</p> <p>Merri Long 803-734-8451 mlong@ed.sc.gov</p> <p>Pat Flora 803-734-8455 pflora@ed.sc.gov</p>	<p>Shawn Larrymore 803-734-8450 smlarrym@ed.sc.gov</p> <p>Glenda Whittle 803-734-8438 gwhittle@ed.sc.gov</p>	<p>Patrice Green 803-734-0070 pgreen@ed.sc.gov</p>

Questions related to content or the assignment of CIP codes for different career clusters may be directed to the following individuals:

Career Cluster	Contact Person
<ul style="list-style-type: none"> ▶ Health Science 	<p>Nancy Allen 803-734-0372 nallen@ed.sc.gov</p>
<ul style="list-style-type: none"> ▶ Business, Management, and Administration ▶ Finance ▶ Information Technology ▶ Marketing, Sales, and Service 	<p>Tony Dillon 803-734-7168 tdillon@ed.sc.gov</p>
<ul style="list-style-type: none"> ▶ Agriculture, Food, and Natural Resources 	<p>William E. Keels 803-788-5700, ext. 31 fax: 803-736-4418 wkeels@clemson.edu</p>
<ul style="list-style-type: none"> ▶ Education and Training ▶ Hospitality and Tourism ▶ Human Services/Family and Consumer Sciences 	<p>Eleanor Glover 803-734-3826 eglover@ed.sc.gov</p>
<ul style="list-style-type: none"> ▶ Arts, Audio-Video Technology, and Communications ▶ Law, Public Safety, Corrections, and Security ▶ Science, Technology, Engineering, and Mathematics ▶ Transportation, Distribution, and Logistics 	<p>B. T. Martin 803-734-3398 btmartin@ed.sc.gov</p>
<ul style="list-style-type: none"> ▶ Architecture and Construction ▶ Manufacturing 	<p>Jim Spencer 803-734-8267 jspencer@ed.sc.gov</p>

To send a fax to SCDE CATE personnel, dial 803-734-3525.

APPENDIX A

Perkins Accountability Indicators for CATE

Key Terms

The federal Perkins Act requires each state to establish accountability indicators. The following are explanations of the terms used in South Carolina's state plan to define the populations measured and descriptions of the accountability indicators:

- **Participant.** A participant is a secondary student enrolled in a state-approved CATE course.
- **Concentrator.** A concentrator is a secondary student with an assigned CIP (Classification of Instructional Programs) code who has earned 3 Carnegie units of credit in a state-recognized CATE program. CIP codes designate specific CATE programs and are used for federal reporting and assessing the Perkins accountability indicators for CATE programs. A state-recognized CATE program must be comprised of a sequence of career and technology education courses leading to a career goal and must include a minimum of 4 Carnegie units of credit.
- **Completer.** A completer is a concentrator who has earned **all** of the required units in a CATE program identified by the assigned CIP code.

Measurement Definitions

1S1 ACADEMIC ATTAINMENT – READING/LANGUAGE ARTS

► Formula

numerator = total number of 12th grade concentrators who scored proficient or advanced on the ELA HSAP administered 2 years prior to the reporting year as required for NCLB

denominator = total number of 12th grade concentrators who took the ELA HSAP administered 2 years prior to the reporting year as required for NCLB

1S2 ACADEMIC ATTAINMENT – MATHEMATICS

► Formula

numerator = total number of 12th grade concentrators who scored proficient or advanced on the Math HSAP administered 2 years prior to the reporting year as required for NCLB

denominator = total number of 12th grade concentrators who took the Math HSAP administered 2 years prior to the reporting year as required for NCLB

2S1 TECHNICAL SKILL ATTAINMENT

► Formula

numerator = total number of concentrators who completed a CATE program and who passed technical skill assessments that are aligned with industry-recognized standards, if available and appropriate, during the reporting year plus concentrators who completed and achieved a final GPA of at least 2.0 averaged over the year for all the CATE courses taken during the year for those program areas that do not have other valid and reliable assessments

denominator = total number of concentrators who completed a CATE program

3S1 SECONDARY SCHOOL COMPLETION

► Formula

numerator = total number of 12th grade concentrators who completed a CATE program and who attained a South Carolina high school diploma, a state certificate, or a GED

denominator = total number of 12th grade concentrators who completed a CATE program

4S1 STUDENT GRADUATION RATES

► Formula

numerator = total number of CATE concentrators who, in the reporting year, were included as graduated in the State's computation of its graduation rate as defined in SC's Consolidated Accountability Plan

denominator = total number of CATE concentrators who, in the reporting year, were included in the State's computation of its graduation rate as defined in SC's Consolidated Accountability Plan

5S1 SECONDARY PLACEMENT

► Formula

numerator = total number of concentrators who completed a CATE program and who are placed in postsecondary education, military service, or employment, averaged over a three-year period

denominator = total number of concentrators who completed a CATE program and are available for placement, averaged over a three-year period

6S1 NONTRADITIONAL PARTICIPATION

► Formula

numerator = total number of concentrators of the underrepresented gender enrolled in CATE programs identified as leading to nontraditional training and employment

denominator = total number of concentrators enrolled in CATE programs identified as leading to nontraditional training and employment

6S2 NONTRADITIONAL COMPLETION

► Formula

numerator = total number of 12th grade concentrators of the underrepresented gender who completed CATE programs identified as leading to nontraditional training and employment

denominator = total number of 12th grade concentrators of the underrepresented gender enrolled in CATE programs identified as leading to nontraditional training and employment

APPENDIX B

CATE Report Card Measures

The Education Oversight Committee has established three measures for career centers on the career center report card and two indicators for the high schools on the high school report card.

REMINDER: Report card data looks at all students enrolled in CATE courses.

MEASURES FOR CAREER CENTERS

1. **Technical Skill Attainment.** Percentage of CATE students passing technical skill assessments that are aligned with industry-recognized standards, plus students achieving an average of at least 2.0 on final grades for the year for all CATE courses they took at the career center during the year.

► **Formula**

numerator = total number of CATE students who passed technical skill assessments that are aligned with industry-recognized standards, if available and appropriate, during the reporting year plus CATE students who achieved a final GPA of at least 2.0 averaged over the year for all CATE courses taken at the career center during the year for those program areas that do not have other valid and reliable assessments.

denominator = total number of students taking CATE courses at the career center during the year

► **How to Make Your Data More Accurate**

- A. Ensure that all sections of each particular CATE course taught at the career center have the last three digits of the career center's seven-digit SIDN (school identification number, sometimes referred to as the BEDS code) correctly entered in the **Owner** field. Accurate SIDN numbers will allow the career center to be identified as teaching the particular course.

2. **GRADUATION.** Percentage of twelfth-grade CATE students receiving a South Carolina high school diploma

► **Formula**

numerator = total number of twelfth-grade CATE students at the career center receiving a South Carolina high school diploma

denominator = total number of twelfth-grade CATE students at the career center

► **How to Make Your Data More Accurate**

- A. Ensure that all sections of each particular CATE course taught at the career center have the last three digits of the career center's seven-digit SIDN (school identification number, sometimes referred to as the BEDS code) correctly entered in the **Owner** field. Accurate SIDN numbers will allow the career center to be identified as teaching the particular course.
- B. Ensure that the **Diploma** field has been completed for all twelfth-grade students.

- 3. PLACEMENT.** Percentage of available CATE completers placed in postsecondary education, military service, or employment, averaged over a three-year period

► **Formula**

numerator = total number of CATE completers who are placed in postsecondary education, military service, or employment, averaged over a three-year period

denominator = total number of CATE completers who are available for placement, averaged over a three-year period

► **How to Make Your Data More Accurate**

- A. Ensure that the correct placement code has been entered in the **CATE Placement** field for each prior-year completer.
- B. Ensure that the correct data have been entered in the **Completer** field and the **Diploma** field.

CATE INDICATORS FOR HIGH SCHOOLS

- 1. Technical Skill Attainment.** Percentage of CATE students passing technical skill assessments that are aligned with industry-recognized standards, plus students achieving an average of at least 2.0 on final grades for the year for all CATE courses they took at the career center during the year.

► **Formula**

numerator = total number of CATE students who passed technical skill assessments that are aligned with industry-recognized standards, if available and appropriate, during the reporting year plus CATE students who achieved a final GPA of at least 2.0 averaged over the year for all CATE courses taken at the high school during the year for those program areas that do not have other valid and reliable assessments.

denominator = total number of students taking CATE courses at the high school during the year

- 2. PLACEMENT.** Percentage of available CATE completers placed in postsecondary education, military service, or employment, averaged over a three-year period

► **Formula**

numerator = total number of CATE completers who are placed in postsecondary education, military service, or employment averaged over a three-year period

denominator = total number of CATE completers who are available for placement, averaged over a three-year period

► **How to Make Your Data More Accurate**

- A. Ensure that the correct placement code has been entered in the **CATE Placement** field for each prior-year completer.
- B. Ensure that the correct data have been entered in the **Completer** field and the **Diploma** field.

GENERAL INDICATORS: CAREER CENTERS AND HIGH SCHOOLS

- 1. PARTICIPATION IN CATE COCURRICULAR ORGANIZATIONS.** Percentage of students attending career centers or high schools who participate in career and technology cocurricular organizations

► **Formula for Career Centers**

numerator = total number of students at the career center who participate in career and technology cocurricular organizations (SkillsUSA, FBLA, FCCLA, DECA, HOSA, TSA, and FFA)

denominator = total number of students enrolled at the career center

► **Formula for High Schools**

numerator = total number of students at the high school who participate in career and technology cocurricular organizations (SkillsUSA, FBLA, FCCLA, DECA, HOSA, TSA, and FFA)

denominator = total number of students enrolled at the high school

- 2. WORK-BASED EXPERIENCES.** Percentage of students in grades nine through twelve who are involved with in-depth learning experiences (e.g., youth apprenticeships, registered apprenticeships, cooperative education, mentoring, shadowing, internships, and service learning) at a work site that allows students to acquire work-related knowledge and skills

► **Formula for Career Centers**

numerator = total number of students in grades nine through twelve participating in work-based experiences with outside agencies or businesses

denominator = total number of students in grades nine through twelve enrolled at the career center

► **Formula for High Schools**

numerator = total number of students in grades nine through twelve who are participating in work-based experiences with outside agencies or businesses

denominator = total number of students in grades nine through twelve

Note: Both numerators above are an unduplicated student count. If the student participates in multiple experiences he/she is only counted once.

APPENDIX C

CATE Career Clusters

Career Clusters

Career clusters are groupings of occupations and broad industries based on commonalities. Career clusters link what students learn in high school with the knowledge and skills they need for success in college and careers. Career clusters identify pathways from high schools to two- and four-year colleges, graduate school, and the workplace so that students can learn in school what they can do in the future. This connection to future goals motivates students to work harder and enroll in more rigorous courses. The sixteen clusters represent all career possibilities:

Agriculture, Food, and Natural Resources
Architecture and Construction
Arts, Audio-Video Technology, and Communications
Business, Management, and Administration
Education and Training
Finance
Government and Public Administration*
Health Science
Hospitality and Tourism
Human Services/Family and Consumer Sciences
Information Technology
Law, Public Safety, Corrections, and Security
Manufacturing
Marketing, Sales, and Service
Science, Technology, Engineering, and Mathematics
Transportation, Distribution, and Logistics

*For school year 2009-10, no CATE courses are assigned to this career cluster.

Additional information on career clusters can be found at: www.careerclusters.org

CATE Code Descriptions

- **Course ID.** The eight characters used to identify each instructional activity.

The first four characters are the digits that make up the course code. The fifth and sixth characters are digits that are district defined. One of three different characters will occupy the seventh position: either the alpha character that represents the academic tag for credit-bearing courses, or the numeric 0, or the digit that represents the special education activity instructional approach. One of three different characters will occupy the eighth position: either the alpha character that represents the unit tag for credit-bearing courses or the numeric 0, or the digit that represents a specific instruction area. Use only **uppercase** characters for academic and unit tags.

- **Course Code.** The first four digits of the course ID.

Valid CATE courses and codes can be found beginning on page 30 of this section. Codes for the state-approved courses are used for the Perkins accountability indicators and report card measures and indicators. Perkins funds may be used to improve state-approved CATE courses with the exception of work-based credit courses. Courses with "LBA" (local board approved) in the title are not valid CATE course codes for state and federal accountability and funding purposes.

► Innovative Courses

For an innovative course, State Board Approval (SBA) is required before the course can be offered. An innovative application must be completed and submitted for OCTE approval. Once the innovative application has been approved by OCTE staff, notification will be sent to the school district with the course code that is to be assigned in the SASI system.

The CATE Innovative Application and instructions can be found at: <http://www.ed.sc.gov/agency/offices/cate/datacollection/DataCollection.html>

► Work-Based Learning Courses

Work-Based Learning Courses (credit bearing) are structured, stand-alone courses that are taken in addition to other CATE courses that make up a CATE CIP-coded program. Each Work-Based Learning Course (credit bearing) has an assigned CATE course code, and guidelines must be followed in order to award the Carnegie unit of credit upon successful completion of the course. Reference the Work-Based Learning document located at <http://www.ed.sc.gov/agency/offices/cate/standards>

- **CIP Code.** The six-digit CIP (Classification of Instructional Programs) codes designate the specific CATE programs and are used for federal reporting and assessing the federal Perkins indicators. Every student identified as a concentrator must be assigned a CIP code. **CIP codes are *not* the same as course codes.**

Programs may be tailored to fit students' career goals. Such customizing may even involve allowing a student to select courses from different CATE cluster areas. Local businesses, advisory committees, and school district/career center personnel should be consulted when customized programs for students are being determined. Each course in a customized program must include contextual learning. Many students may choose not to take advantage of the increased offerings. However, those students who have been encouraged to pursue instruction that is strictly related to an established program of study now have the opportunity to receive this type of instruction.

- **Custom program within cluster.** These CIP codes are used to identify students who have been identified as concentrators in CATE courses within a cluster.
- **Cross-Cluster program with emphasis on cluster.** These CIP codes are used to identify students who have been identified as concentrators in CATE courses across two or more cluster areas.

NOTE: For school year 2009-10, prior approval from CATE staff is needed in order to use a Custom or Cross-Cluster CIP code. The approval form and instructions for completing and submitting the form are located at: <http://www.ed.sc.gov/agency/offices/cate/datacollection/DataCollection.html>

Courses and Programs within the CATE Clusters

All descriptions of cluster content in this section are taken with minor editorial emendations from the States' Career Clusters Web page at www.careerclusters.org/16clusters.cfm

Cluster: Agriculture, Food, and Natural Resources

The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

Course Code	Course Title
5600	Agribusiness and Marketing
5614	Agricultural Crop Production and Management
5660	Agricultural Mechanics and Technology
5604	Agricultural Mechanics and Technology for the Workplace 1
5605	Agricultural Mechanics and Technology for the Workplace 2
5610	Agricultural Power Mechanics
5624	Agricultural Science and Technology
5620	Agricultural Science and Technology for the Workplace
5611	Agricultural Structural Mechanics
5603	Animal Science
5608	Animal Science for the Workplace 1
5609	Animal Science for the Workplace 2
5663	Aquaculture
5646	Cattle Production
5626	Environmental and Natural Resources Management
5628	Environmental and Natural Resources Management for the Workplace 1
5629	Environmental and Natural Resources Management for the Workplace 2
5679	Equine Science
5621	Equipment Operation and Maintenance
5647	Farm Animal Production
5634	Floriculture
5657	Food Processing
5642	Forestry
5667	Golf Course Technology
5652	Horticulture for the Workplace 1
5653	Horticulture for the Workplace 2
5650	Introduction to Horticulture
5613	Introduction to Veterinary Science
5670	Landscape Technology
5672	Nursery, Greenhouse, and Garden Center Technology
5602	Outdoor Recreation
5612	Small Animal Care
5627	Soil and Water Conservation
5655	Sports Turf Management
5654	Turf and Lawn Management
5674	Wildlife Management
5690	Agriculture, Food, and Natural Resources, work-based credit
5699	Agriculture, Food, and Natural Resources, LBA
CIP Code	Program Title
010205	Agricultural Mechanics and Technology
030101	Environmental and Natural Resources Management
010601	Horticulture
011101	Plant and Animal Systems

Cluster: Architecture and Construction

Careers in designing, planning, managing, building, and maintaining the built environment.

Course Code	Course Title
6003	Air Conditioning and Refrigeration Technology 1
6004	Air Conditioning and Refrigeration Technology 2
6005	Air Conditioning and Refrigeration Technology 3
6006	Air Conditioning and Refrigeration Technology 4
6060	Building Construction Cluster 1
6061	Building Construction Cluster 2
6062	Building Construction Cluster 3
6063	Building Construction Cluster 4
6080	Cabinetmaking 1
6081	Cabinetmaking 2
6082	Cabinetmaking 3
6083	Cabinetmaking 4
6091	Carpentry 1
6092	Carpentry 2
6093	Carpentry 3
6094	Carpentry 4
6287	Electricity 1
6288	Electricity 2
6289	Electricity 3
6290	Electricity 4
6001	Introduction to Construction
6250	Masonry 1
6251	Masonry 2
6252	Masonry 3
6253	Masonry 4
6280	Plumbing 1
6281	Plumbing 2
6282	Plumbing 3
6283	Plumbing 4
6690	Architecture and Construction, work-based credit
6299	Architecture and Construction, LBA
CIP Code	Program Title
470201	Air Conditioning and Refrigeration Technology
460000	Building Construction Cluster
480703	Cabinetmaking
460201	Carpentry
460301	Electricity
460101	Masonry
460503	Plumbing

Cluster: Arts, Audio-Video Technology, and Communications

Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Course Code	Course Title
6170	Architectural Design 1
6171	Architectural Design 2
6120	Digital Art and Design 1
6121	Digital Art and Design 2
6122	Digital Art and Design 3
6123	Digital Art and Design 4
5710	Fashion Design and Apparel Construction 1
5711	Fashion Design and Apparel Construction 2
6200	Graphic Communications 1
6201	Graphic Communications 2
6202	Graphic Communications 3
6203	Graphic Communications 4
5455	Interior Design 1
5456	Interior Design 2
5712	Introduction to Fashion Design and Apparel Construction
5205	Introduction to Graphics Communication
6172	Mechanical Design 1
6173	Mechanical Design 2
5290	Arts, Audio-Video Technology, and Communications, work-based credit
5299	Art, Audio-Video Technology, and Communications, LBA
CIP Code	Program Title
151301	Architecture/Mechanical Design
500402	Digital Art and Design
500407	Fashion Design and Apparel Construction
100301	Graphic Communications
500408	Interior Design

Cluster: Business, Management, and Administration

Business, management, and administration careers encompass planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. Business, Management, and Administration career opportunities are available in every sector of the economy.

Course Code	Course Title
5122	Administrative Support Technology
5040	Business and Electronic Communication (Phasing out July 2012)
5035	Business and Marketing Internet Applications (Phasing out July 2010)
5131	<i>Personal Finance</i> (Formerly Business and Personal Finance)
5047	Business Computer Mathematics (Phasing out July 2012)
5044	Business Law
5008	<i>Computer Applications</i> (Formerly Computer Applications 1) (Refer to Page 41 for More Info)
5009	Computer Applications 2 (Phasing out July 2010)
5176	<i>Digital Desktop Publishing</i> (Formerly Desktop Publishing)
5180	Digital Input Technologies
5177	Document Processing (Phasing out July 2010)
5036	E-Commerce (Phasing out July 2012)
5400	Entrepreneurship
5020	Integrated Business Applications 1
5021	Integrated Business Applications 2
5032	International Business and Marketing
5090	Introduction to Business and Marketing
5060	Introduction to Computer Technology (Phasing out July 2010)
5100	Keyboarding (Refer to Page 41 for More Info)
5030	<i>Digital Multimedia</i> (Formerly Multimedia)
5178	Professional and Leadership Development
5043	Technical Writing (Phasing out July 2012)
5150	Virtual Enterprise 1
5151	Virtual Enterprise 2
5152	Virtual Enterprise 3
5153	Virtual Enterprise 4
5031	Web Page Design and Development 1
5033	Web Page Design and Development 2
5490	Business, Management, and Administration, work-based credit
5499	Business, Management, and Administration, LBA
CIP Code	Program Title
520401	Administrative Services
521206	Business Information Management
520201	General Management
520204	Operations Management

CIP Code	CATE Programs in Transition	Transition Status/Time Frame
520400	Administration and Information Support	Phasing out as a CATE Program by July 2010
520305	Business Analysis	Phasing out as a CATE Program by July 2010
520300	Bus. Financial Management & Accounting	Phasing out as a CATE Program by July 2010
520703	Small Business Management	Phasing out as a CATE Program by July 2010

Cluster: Education and Training

Planning, managing, and providing education and training services and related learning support services.

Course Code	Course Title
5800	Child Development 1
5801	Child Development 2
5700	Early Childhood Education 1
5701	Early Childhood Education 2
5702	Introduction to Early Childhood Education
5703	Introduction to Teaching 1
5704	Introduction to Teaching 2
6390	Education and Training, work-based credit
6399	Education and Training, LBA
CIP Code	Program Title
131210	Early Childhood Education
130101	Introduction to Teaching

Cluster: Finance

Planning, managing, and providing education and training services and related learning support services.

Course Code	Course Title
5001	Accounting 1
5005	Accounting 2
5271	Banking Services
5273	Business Finance
5275	Insurance
5277	Securities and Investments
6190	Finance, work-based credit
6899	Finance, LBA
CIP Code	Program Title
520801	Academy of Finance
520301	Accounting
520804	Business Finance

Cluster: Health Science

Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Course Code	Course Title
5530	Emergency Medical Services 1
5531	Emergency Medical Services 2
5532	Emergency Medical Services 3
5533	Emergency Medical Services 4
5560	Gerontology
5550	Health Science Technology 1
5551	Health Science Technology 2
5581	Human Body Systems
5554	Introduction to Health Science
5582	Medical Interventions
5540	Medical Terminology
5570	Pharmacy Technology
5520	Practical Nursing, Phase 1
5580	Principles of Biomedical Sciences
5555	Sports Medicine 1
5556	Sports Medicine 2
5590	Health Science, work-based credit
5591	Sports Medicine, work-based credit
5599	Health Science, LBA
CIP Code	Program Title
510000	Health Science
511600	Practical Nursing

Cluster: Hospitality and Tourism

Hospitality and Tourism encompasses the management, marketing, and operations of restaurants and other food services, lodging, attractions, recreation events, and travel-related services.

Course Code	Course Title
5720	Culinary Arts 1
5721	Culinary Arts 2
5476	Hospitality Management and Operations 1
5477	Hospitality Management and Operations 2
5722	Introduction to Culinary Arts
5478	Introduction to Hospitality Management and Operations
5190	Hospitality and Tourism, work-based credit
5199	Hospitality and Tourism, LBA
CIP Code	Program Title
520905	Culinary Arts
520904	Hospitality Management and Operations

Cluster: Human Services/Family and Consumer Sciences

Preparing individuals for employment in career pathways that relate to families and human needs.

Course Code	Course Title
6150	Cosmetology 1
6151	Cosmetology 2
6152	Cosmetology 3
6153	Cosmetology 4
5808	Family and Consumer Sciences 1
5809	Family and Consumer Sciences 2
5820	Family Life Education 1
5821	Family Life Education 2
5804	Fashion, Fabric, and Design 1
5805	Fashion, Fabric, and Design 2
5812	Financial Fitness 1
5813	Financial Fitness 2
5824	Foods and Nutrition 1
5825	Foods and Nutrition 2
5830	Housing and Interiors 1
5831	Housing and Interiors 2
5834	Human Development: Responsible Life Choices 1
5835	Human Development: Responsible Life Choices 2
6154	Nail Technology 1
6155	Nail Technology 2
6156	Nail Technology 3
6157	Nail Technology 4
5816	Parenting Education 1
5817	Parenting Education 2
5759	<i>Sports Nutrition 1</i> (Formerly Sports Nutrition)
5760	Sports Nutrition 2
5890	Family and Consumer Sciences, work-based credit
5790	Human Services, work-based credit
5899	Family and Consumer Sciences, LBA
5799	Human Services, LBA
CIP Code	Program Title
120401	Cosmetology
190101	Family and Consumer Sciences
120410	Nail Technology

Cluster: Information Technology

Building linkages in IT occupations framework: for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

Course Code	Course Title
5350	Animated Computer Production
5050	Computer Programming 1
5051	Computer Programming 2
5052	<i>Computer Programming with Java 1</i> (Formerly Computer Programming 3)
5053	<i>Computer Programming with Java 2</i> (Formerly Computer Programming 4)
5054	Computer Programming with Visual Basic 1
5055	Computer Programming with Visual Basic 2
5056	Computer Programming with C++ 1
5057	Computer Programming with C++ 2
5320	Computer Service Technology 1
5321	Computer Service Technology 2
5322	Computer Service Technology 3
5323	Computer Service Technology 4
5340	Digital Imaging 1
5341	Digital Imaging 2
5330	Home Systems Technology
5270	Information Technology Foundations
5310	Networking 1
5311	Networking 2
5312	Networking 3
5313	Networking 4
5326	Oracle Development Programming Language/Sequential Query Language
5324	Oracle Management/Sequential Query Language
5390	Information Technology, work-based credit
5399	Information Technology, LBA
CIP Code	Program Title
151202	Information Support and Services
110801	<i>Web and Digital Communications</i> (Formerly Interactive Media)
110901	Networking Systems
110201	Programming and Software Development

Cluster: Law, Public Safety, Corrections, and Security

Planning, managing, and providing legal, public safety, protective services, and homeland security, including professional and technical support services.

Course Code	Course Title
6512	Emergency and Fire Management Services 1
6513	Emergency and Fire Management Services 2
6505	Introduction to Law, Public Safety, Corrections and Security
6510	Law Enforcement Services 1
6511	Law Enforcement Services 2
6590	Law, Public Safety, Corrections and Security, work-based credit
6599	Law, Public Safety, Corrections and Security, LBA
CIP Code	Program Title
430203	Emergency and Fire Management Services
430107	Law Enforcement Services

Cluster: Manufacturing

Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

Course Code	Course Title
6110	Communication Electronics 1
6111	Communication Electronics 2
6133	Core Electronics 1
6134	Core Electronics 2
6135	Core Electronics 3
6136	Core Electronics 4
6220	Industrial Electronics 1
6221	Industrial Electronics 2
6045	Introduction to Manufacturing Technology
6230	Machine Technology 1
6231	Machine Technology 2
6232	Machine Technology 3
6233	Machine Technology 4
6210	Mechatronics Integrated Technologies 1
6211	Mechatronics Integrated Technologies 2
6212	Mechatronics Integrated Technologies 3
6213	Mechatronics Integrated Technologies 4
6260	Metal Fabrication 1
6261	Metal Fabrication 2
6262	Metal Fabrication 3
6263	Metal Fabrication 4
6340	Welding Technology 1
6341	Welding Technology 2
6342	Welding Technology 3
6343	Welding Technology 4
6490	Manufacturing, work-based credit
6499	Manufacturing, LBA
CIP Code	Program Title
470103	Communication Electronics
470101	Core Electronics
470105	Industrial Electronics
480503	Machine Technology
150404	Mechatronics Integrated Technologies
480501	Metal Fabrication
480508	Welding Technology

Cluster: Marketing, Sales, and Service

Planning, managing, and performing marketing activities to reach organizational objectives.

Course Code	Course Title
5470	Advertising
5410	Fashion Merchandising
5440	<i>Global Business</i> (Formerly Global Markets)
5421	Marketing
5431	Marketing Management
5430	Merchandising
5425	Sports and Entertainment Marketing 1
5426	<i>Sports and Entertainment Management</i> (Formerly Sports and Entertainment Marketing 2)
5091	Marketing, Sales, and Service, work-based credit
5099	Marketing, Sales, and Services, LBA
CIP Code	Program Title
090903	Marketing Communications
521401	Marketing Management
521802	Merchandising

CIP Code	CATE Programs in Transition	Transition Status/Time Frame
520208	E-Marketing	Phasing out as a CATE Program by July 2010
521403	Global Marketing	Phasing out as a CATE Program by July 2010
521401	Marketing Comm., Mngmt., & Promotion	Phasing out as a CATE Program by July 2010

Cluster: Science, Technology, Engineering, and Mathematics

Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services and research and development services.

Course Code	Course Title
5757	Food Science and Dietetics 1
5758	Food Science and Dietetics 2
6040	Industrial Technology Education (Exploratory) 1
6041	Industrial Technology Education (Exploratory) 2
	PROJECT LEAD THE WAY
6095	Introduction to Pre-Engineering Technology*
6051	Introduction to Engineering Design
6050	Principles of Engineering
6052	Digital Electronics
	Optional fourth-level courses:
6053	Computer Integrated Manufacturing
6054	Engineering Design and Development
6056	Aerospace Engineering
6057	Biotechnical Engineering
6058	Civil Engineering and Architecture
6090	Pre-Engineering/Industrial Technology Education, work-based credit
6099	Pre-Engineering/Industrial Technology Education, LBA
CIP Code	Program Title
140101	Project Lead The Way – Pre-Engineering
190501	Food Science and Dietetics

*Approval Required – Contact B. T. Martin

Cluster: Transportation, Distribution, and Logistics

Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance.

Course Code	Course Title
6020	Automotive Collision Repair Technology 1
6021	Automotive Collision Repair Technology 2
6022	Automotive Collision Repair Technology 3
6023	Automotive Collision Repair Technology 4
6030	Automotive Technology 1
6031	Automotive Technology 2
6032	Automotive Technology 3
6033	Automotive Technology 4
6310	<i>Diesel Engine Technology 1</i> (Formerly Diesel Engine Mechanics 1)
6311	<i>Diesel Engine Technology 2</i> (Formerly Diesel Engine Mechanics 2)
6312	<i>Diesel Engine Technology 3</i> (Formerly Diesel Engine Mechanics 3)
6313	<i>Diesel Engine Technology 4</i> (Formerly Diesel Engine Mechanics 4)
6015	Introduction to Transportation, Distribution, and Logistics
6300	Small Engine Technology 1
6301	Small Engine Technology 2
6302	Small Engine Technology 3
6303	Small Engine Technology 4
6790	Transportation, Distribution, and Logistics, work-based credit
6199	Transportation, Distribution, and Logistics, LBA
CIP Code	Program Title
470603	Automotive Collision Repair Technology
470604	Automotive Technology
470605	<i>Diesel Engine Technology</i> (Formerly Diesel Engine Mechanics)
470606	Small Engine Technology

The Office of Career and Technology Education currently offers no courses in the following cluster:

Cluster: Government and Public Administration

Executing governmental functions to include governance; national security; foreign service; planning; revenue and taxation; regulation; and management and administration at the local, state, and federal levels.

Middle School CATE Courses

Middle School Courses (Seventh and Eighth Grades)

Course Code	Course Title
2841	Gateway to Technology
2840	Industrial Technology Education
2856	Introduction to Agriculture
2830	Introduction to Career Clusters
2857	Personal Skills 1
2858	Personal Skills 2
Use 5008 (Computer Applications) and 5100 (Keyboarding) as the course codes for middle school students taking these courses for high school credit if (a) the course follows the CATE curriculum standards for Computer Applications and Keyboarding and (b) if a teacher with business education certification teaches the courses.	
5008	<i>Computer Applications</i> (Formerly Computer Applications 1) (high school credit)
5100	Keyboarding (high school credit)

CATE Programs: CIP Codes and Courses

The following are listings of the courses that create programs within several of the sixteen clusters. A state-recognized CATE program must be comprised of a sequence of career and technology education courses leading to a career goal and must include a *minimum* of 4 Carnegie units of credit. If the units of credit required to complete a specified CATE program *exceed* the minimum of 4 units, students must earn all of the required units of credit to be considered CATE program completers.

Agriculture, Food, and Natural Resources Programs

Agricultural Mechanics and Technology010205

Agribusiness and Marketing
Agricultural Mechanics and Technology
Agricultural Mechanics and Technology for the Workplace 1
Agricultural Mechanics and Technology for the Workplace 2
Agricultural Power Mechanics
Agricultural Science and Technology
Agricultural Science and Technology for the Workplace
Agricultural Structural Mechanics
Equipment Operation and Maintenance
Soil and Water Conservation
Agriculture, Food, and Natural Resources, work-based credit

Environmental and Natural Resources Management030101

Agricultural Mechanics and Technology
Agricultural Science and Technology
Agricultural Science and Technology for the Workplace
Aquaculture
Environmental and Natural Resources Management
Environmental and Natural Resources Management for the Workplace 1
Environmental and Natural Resources Management for the Workplace 2
Equipment Operation and Maintenance
Forestry
Outdoor Recreation
Soil and Water Conservation
Wildlife Management
Agriculture, Food, and Natural Resources, work-based credit

Horticulture.....010601

Agribusiness and Marketing
Agricultural Mechanics and Technology
Agricultural Science and Technology
Agricultural Science and Technology for the Workplace
Equipment Operation and Maintenance
Floriculture
Golf Course Technology
Horticulture for the Workplace 1
Horticulture for the Workplace 2
Introduction to Horticulture
Landscape Technology
Nursery, Greenhouse, and Garden Center Technology
Sports Turf Management
Turf and Lawn Management
Agriculture, Food, and Natural Resources, work-based credit

Plant and Animal Systems.....011101

Agribusiness and Marketing
Agricultural Crop Production and Management
Agricultural Mechanics and Technology
Agricultural Science and Technology
Agricultural Science and Technology for the Workplace
Animal Science
Animal Science for the Workplace 1
Animal Science for the Workplace 2
Aquaculture
Cattle Production
Equine Science
Equipment Operation and Maintenance
Farm Animal Production
Food Processing
Introduction to Veterinary Science
Small Animal Care
Soil and Water Conservation
Agriculture, Food, and Natural Resources, work-based credit

Architecture and Construction Programs

Air Conditioning and Refrigeration Technology470201

Air Conditioning and Refrigeration Technology 1
Air Conditioning and Refrigeration Technology 2
Air Conditioning and Refrigeration Technology 3
Air Conditioning and Refrigeration Technology 4
Architecture and Construction, work-based credit

Building Construction Cluster460000

Building Construction Cluster 1
Building Construction Cluster 2
Building Construction Cluster 3
Building Construction Cluster 4
Architecture and Construction, work-based credit

Cabinetmaking480703

Cabinetmaking 1
Cabinetmaking 2
Cabinetmaking 3
Cabinetmaking 4
Architecture and Construction, work-based credit

Carpentry460201

Carpentry 1
Carpentry 2
Carpentry 3
Carpentry 4
Architecture and Construction, work-based credit

Electricity460301

Electricity 1
Electricity 2
Electricity 3
Electricity 4
Architecture and Construction, work-based credit

Masonry460101

Masonry 1
Masonry 2
Masonry 3
Masonry 4
Architecture and Construction, work-based credit

Plumbing.....460503

Plumbing 1

Plumbing 2

Plumbing 3

Plumbing 4

Architecture and Construction, work-based credit

Arts, Audio-Video Technology, and Communications Programs

Architecture/Mechanical Design 151301

Architectural Design 1
Architectural Design 2
Mechanical Design 1
Mechanical Design 2
Arts, Audio-Video Technology, and Communications, work-based credit

Digital Art and Design 500402

Digital Art and Design 1
Digital Art and Design 2
Digital Art and Design 3
Digital Art and Design 4
Arts, Audio-Video Technology, and Communications, work-based credit

Fashion Design and Apparel Construction 500407

Required Courses:

Fashion Design and Apparel Construction 1
Fashion Design and Apparel Construction 2

Plus one or more of the following if needed to meet state-recognized program requirements:

Business and Electronic Communications (Phasing out July 2012)
Entrepreneurship
Family and Consumer Sciences 1
Family and Consumer Sciences 2
Fashion, Fabric, and Design 1
Fashion, Fabric, and Design 2
Fashion Merchandising
Financial Fitness 1
Financial Fitness 2
Housing and Interiors 1
Housing and Interiors 2
Introduction to Fashion Design and Apparel Construction
Marketing Management
Mechanical Design 1
Arts, Audio-Video Technology, and Communications, work-based credit

Graphic Communications..... 100301

Graphic Communications 1
Graphic Communications 2
Graphic Communications 3
Graphic Communications 4
Arts, Audio-Video Technology, and Communications, work-based credit

Interior Design.....500408

Required Courses:

Interior Design 1

Interior Design 2

Plus one or more of the following if needed to meet state-recognized program requirements:

Business and Electronic Communications (Phasing out July 2012)

Entrepreneurship

Family and Consumer Sciences 1

Family and Consumer Sciences 2

Fashion, Fabric, and Design 1

Fashion, Fabric, and Design 2

Fashion Merchandising

Financial Fitness 1

Financial Fitness 2

Housing and Interiors 1

Housing and Interiors 2

Marketing Management

Mechanical Design 1

Arts, Audio-Video Technology, and Communications, work-based credit

Business, Management, and Administration Programs

Administrative Services.....520401

Required Courses:

Administrative Support Technology

Integrated Business Applications 1

Plus two or more of the following:

Business and Electronic Communication (Phasing out July 2012)

Business and Marketing Internet Applications (Phasing out July 2010)

Digital Input Technologies

Document Processing (Phasing out July 2010)

Integrated Business Applications 2

Professional and Leadership Development

Digital Desktop Publishing (Formerly Desktop Publishing)

Web Page Design and Development 1

Web Page Design and Development 2

Business, Management, and Administration, work-based credit

Business Information Management.....521206

Required Courses:

Web Page Design and Development 1

Digital Desktop Publishing (Formerly Desktop Publishing)

Plus two or more of the following:

Animated Computer Production

Business and Marketing Internet Applications (Phasing out July 2010)

Digital Imaging 1

Digital Imaging 2

Digital Input Technologies

Digital Multimedia (Formerly Multimedia)

Entrepreneurship

Information Technology Foundations

Integrated Business Applications 1

Integrated Business Applications 2

Professional and Leadership Development

Web Page Design and Development 2

Business, Management, and Administration, work-based credit

General Management520201

Required Courses:

Entrepreneurship

Accounting 1

Plus two or more of the following:

Accounting 2

Business Finance

Business Law

E-Commerce (Phasing out July 2012)

Global Business (Formerly Global Markets)

International Business and Marketing

Integrated Business Applications 1

Integrated Business Applications 2

Professional and Leadership Development

Virtual Enterprise 1

Virtual Enterprise 2

Virtual Enterprise 3

Virtual Enterprise 4

Business, Management, and Administration, work-based credit

Operations Management520204

Required Courses:

Virtual Enterprise 1

Virtual Enterprise 2

Plus two or more of the following:

Accounting 1

Accounting 2

Business Computer Mathematics (Phasing out July 2012)

Business Law

Digital Input Technologies

E-Commerce (Phasing out July 2012)

Entrepreneurship

International Business and Marketing

Integrated Business Applications 1

Integrated Business Applications 2

Professional and Leadership Development

Virtual Enterprise 3

Virtual Enterprise 4

Business, Management, and Administration, work-based credit

NOTE: CIP codes and courses for Business, Management, and Administration Programs in Transition may be found on pages 65-66.

Education and Training Program

Early Childhood Education.....131210

Required Courses:

Early Childhood Education 1

Early Childhood Education 2

Plus one or more of the following if needed to meet state-recognized program requirements:

Child Development 1

Child Development 2

Entrepreneurship

Family and Consumer Sciences 1

Family and Consumer Sciences 2

Family Life Education 1

Family Life Education 2

Financial Fitness 1

Financial Fitness 2

Foods and Nutrition 1

Foods and Nutrition 2

Introduction to Culinary Arts

Introduction to Early Childhood Education

Introduction to Health Science

Parenting Education 1

Parenting Education 2

Sports Nutrition 1 (Formerly Sports Nutrition)

Sports Nutrition 2

Education and Training, work-based credit

Introduction to Teaching.....130101

Required Courses:

Introduction to Teaching 1

Introduction to Teaching 2

Plus one or more of the following if needed to meet state-recognized program requirements:

Child Development 1

Child Development 2

Family and Consumer Sciences 1

Family and Consumer Sciences 2

Family Life Education 1

Family Life Education 2

Financial Fitness 1

Financial Fitness 2

Human Development: Responsible Life Choices 1

Human Development: Responsible Life Choices 2

Introduction to Early Childhood Education

Introduction to Health Science

Parenting Education 1

Parenting Education 2

Education and Training, work-based credit

Finance Program

Academy of Finance520801

Schools meeting the National Academy Foundation (NAF) membership requirements must follow the NAF curriculum (<http://www.naf.org>).

Accounting520301

Required Courses:

Accounting 1

Accounting 2

Plus two or more of the following:

Business Finance

Business Computer Mathematics (Phasing out July 2012)

Entrepreneurship

Integrated Business Applications 1

Integrated Business Applications 2

Personal Finance (Formerly Business and Personal Finance)

Professional and Leadership Development

Securities and Investments

Virtual Enterprise 1

Virtual Enterprise 2

Virtual Enterprise 3

Virtual Enterprise 4

Finance, work-based credit

Business Finance.....520804

Required Courses:

Business Finance

Banking Services

Plus two or more of the following:

Accounting 1

Accounting 2

Business Law

Entrepreneurship

Insurance

Integrated Business Applications 1

Integrated Business Applications 2

Introduction to Business and Marketing

Personal Finance (Formerly Business and Personal Finance)

Professional and Leadership Development

Securities and Investments

Finance, work-based credit

Health Science Programs

Health Science510000

Emergency Medical Services 1
 Emergency Medical Services 2
 Emergency Medical Services 3
 Emergency Medical Services 4
 Gerontology
 Health Science Technology 1
 Health Science Technology 2
 Human Body Systems
 Introduction to Health Science
 Medical Interventions
 Medical Terminology
 Pharmacy Technology
 Practical Nursing, Phase 1
 Principles of Biomedical Sciences
 Sports Medicine 1
 Sports Medicine 2
 Health Science Technology, work-based credit

Practical Nursing.....511600

Practical Nursing, Phase 1

Hospitality and Tourism Programs

Culinary Arts520905

Required Courses:

Culinary Arts 1
 Culinary Arts 2

Plus one or more of the following if needed to meet state-recognized program requirements:

Accounting 1
 Accounting 2
 Business and Electronic Communication (Phasing out July 2012)
 Entrepreneurship
 Financial Fitness 1
 Financial Fitness 2
 Foods and Nutrition 1
 Foods and Nutrition 2
 Hospitality Management and Operations 1
 Human Development: Responsible Life Choices 1
 Human Development: Responsible Life Choices 2
 Introduction to Culinary Arts
 Sports Nutrition 1 (Formerly Sports Nutrition)
 Sports Nutrition 2
 Hospitality and Tourism, work-based credit

Hospitality Management and Operations.....520904

Required Courses:

Hospitality Management and Operations 1

Hospitality Management and Operations 2

Plus one or more of the following if needed to meet state-recognized program requirements:

Accounting 1

Accounting 2

Business and Electronic Communication (Phasing out July 2012)

Family and Consumer Sciences 1

Family and Consumer Sciences 2

Culinary Arts 1

Entrepreneurship

Financial Fitness 1

Financial Fitness 2

Foods and Nutrition 1

Foods and Nutrition 2

Introduction to Hospitality Management and Operations

Marketing Management

Sports and Entertainment Marketing 1

Hospitality and Tourism, work-based credit

Human Services/Family and Consumer Sciences Programs

Family and Consumer Sciences190101

- **Note:** Program completers in Family and Consumer Sciences must select courses that show a clear path to a career and must take levels one and two of the selected courses. Completers should take levels one and two of the selected courses. A minimum of four units of credit are required to be a completer.

Option 1: Behavioral and Social Sciences

Child Development 1
Child Development 2
Family and Consumer Sciences 1
Family and Consumer Sciences 2
Family Life Education 1
Family Life Education 2
Financial Fitness 1
Financial Fitness 2
Human Development: Responsible Life Choices 1
Human Development: Responsible Life Choices 2
Parenting Education 1
Parenting Education 2
Family and Consumer Sciences, work-based credit

Option 2: Design

Family and Consumer Sciences 1
Family and Consumer Sciences 2
Fashion, Fabric, and Design 1
Fashion, Fabric, and Design 2
Housing and Interiors 1
Housing and Interiors 2
Family and Consumer Sciences, work-based credit

Option 3: Nutrition

Family and Consumer Sciences 1
Family and Consumer Sciences 2
Foods and Nutrition 1
Foods and Nutrition 2
Sports Nutrition 1 (Formerly Sports Nutrition)
Sports Nutrition 2
Family and Consumer Sciences, work-based credit

Cosmetology120401

Cosmetology 1
Cosmetology 2
Cosmetology 3
Cosmetology 4
Human Services, work-based credit

Nail Technology.....120410

Nail Technology 1

Nail Technology 2

Nail Technology 3

Nail Technology 4

Human Services, work-based credit

Information Technology Programs

Information Support and Services.....151202

Required Courses:

Computer Service Technology 1

Computer Service Technology 2

Plus two or more of the following:

Computer Service Technology 3

Computer Service Technology 4

Computer Programming 1

Computer Programming 2

Computer Programming with Java 1 (Formerly Computer Programming 3)

Computer Programming with Java 2 (Formerly Computer Programming 4)

Computer Programming with Visual Basic 1

Computer Programming with Visual Basic 2

Computer Program with C++ 1

Computer Program with C++ 2

Core Electronics

Entrepreneurship

Home Systems Technology

Information Technology Foundations

Integrated Business Applications 1

Integrated Business Applications 2

Networking 1

Networking 2

Networking 3

Networking 4

Information Technology, work-based credit

Web and Digital Communications (Formerly Interactive Media)110801

Required Courses:

Animated Computer Production

Digital Imaging 1

Plus two or more of the following:

Digital Desktop Publishing (Formerly Desktop Publishing)

Digital Imaging 2

Digital Input Technology

Digital Multimedia (Formerly Multimedia)

Entrepreneurship

Graphic Communications

Integrated Business Applications 1

Integrated Business Applications 2

Information Technology Foundations

Professional and Leadership Development

Web Page Design and Development 1

Web Page Design and Development 2

Information Technology, work-based credit

Networking Systems 110901

Required Courses:

Networking 1

Networking 2

Plus two or more of the following:

Computer Programming 1

Computer Programming 2

Computer Programming with Java 1 (Formerly Computer Programming 3)

Computer Programming with Java 2 (Formerly Computer Programming 4)

Computer Programming with Visual Basic 1

Computer Programming with Visual Basic 2

Computer Program with C++ 1

Computer Program with C++ 2

Computer Service Technology 1

Computer Service Technology 2

Computer Service Technology 3

Computer Service Technology 4

Core Electronics

Entrepreneurship

Home Systems Technology

Information Technology Foundations

Networking 3

Networking 4

Information Technology, work-based credit

Programming and Software Development 110201

Required Courses:

Computer Programming 1

Computer Programming 2

OR

Computer Programming with Java 1 (Formerly Computer Programming 3)

Computer Programming with Java 2 (Formerly Computer Programming 4)

OR

Computer Programming with Visual Basic 1

Computer Programming with Visual Basic 2

OR

Computer Program with C++ 1

Computer Program with C++ 2

OR

Oracle Management SQL

Oracle Development PL/SQL

Plus two or more of the following:

Animated Computer Production

Entrepreneurship

Information Technology Foundations

Integrated Business Applications 1

Integrated Business Applications 2

Professional and Leadership Development

Web Page Design and Development 1

Web Page Design and Development 2

Information Technology, work-based credit

Law, Public Safety, Corrections and Security Programs

Emergency and Fire Management Services430203

Emergency and Fire Management Services 1
Emergency and Fire Management Services 2
Law, Public Safety, Corrections and Security, work-based credit

Note: A state-recognized CATE program must include a *minimum* of 4 Carnegie units of credit. The Emergency and Fire Management Services program must include multi-unit courses to meet this requirement.

Law Enforcement Services430107

Law Enforcement Services 1
Law Enforcement Services 2
Law, Public Safety, Corrections and Security, work-based credit

Note: A state-recognized CATE program must include a *minimum* of 4 Carnegie units of credit. The Law Enforcement Services program must include multi-unit courses to meet this requirement.

Manufacturing Programs

Communication Electronics470103

Communication Electronics 1
Communication Electronics 2
Manufacturing, work-based credit

Note: A state-recognized CATE program must include a *minimum* of 4 Carnegie units of credit. The Communication Electronics program must include multi-unit courses to meet this requirement.

Core Electronics470101

Core Electronics 1
Core Electronics 2
Core Electronics 3
Core Electronics 4
Manufacturing, work-based credit

Industrial Electronics470105

Industrial Electronics 1
Industrial Electronics 2
Manufacturing, work-based credit

Note: A state-recognized CATE program must include a *minimum* of 4 Carnegie units of credit. The Industrial Electronics program must include multi-unit courses to meet this requirement.

Machine Technology480503

Machine Technology 1
Machine Technology 2
Machine Technology 3
Machine Technology 4
Manufacturing, work-based credit

Mechatronics Integrated Technologies.....150404

Mechatronics Integrated Technologies 1
Mechatronics Integrated Technologies 2
Mechatronics Integrated Technologies 3
Mechatronics Integrated Technologies 4
Manufacturing, work-based credit

Metal Fabrication480501

Metal Fabrication 1
Metal Fabrication 2
Metal Fabrication 3
Metal Fabrication 4
Manufacturing, work-based credit

Welding Technology480508

Welding Technology 1

Welding Technology 2

Welding Technology 3

Welding Technology 4

Manufacturing, work-based credit

Marketing, Sales, and Service Programs

Marketing Communications090903

Required Courses:

Marketing

Advertising

Plus two or more of the following:

Digital Desktop Publishing (Formerly Desktop Publishing)

Digital Imaging 1

Digital Imaging 2

Digital Multimedia (Formerly Multimedia)

E-Commerce (Phasing out July 2012)

Entrepreneurship

Global Business (Formerly Global Markets)

International Business and Marketing

Professional and Leadership Development

Virtual Enterprise 1

Virtual Enterprise 2

Virtual Enterprise 3

Virtual Enterprise 4

Sports and Entertainment Marketing 1

Web Page Design and Development 1

Web Page Design and Development 2

Marketing, Sales, and Service, work-based credit

Marketing Management.....521401

Required Courses:

Marketing

Marketing Management

Plus two or more of the following:

Accounting 1

Accounting 2

Business Law

E-Commerce (Phasing out July 2012)

Entrepreneurship

Hospitality Management and Operations 2

Integrated Business Applications 1

Integrated Business Applications 2

Professional and Leadership Development

Sports and Entertainment Management (Formerly Sports and Entertainment Marketing 2)

Virtual Enterprise 1

Virtual Enterprise 2

Virtual Enterprise 3

Virtual Enterprise 4

Marketing, Sales, and Service, work-based credit

Merchandising.....521802

Required Courses:

Marketing

Merchandising

Plus two or more of the following:

Fashion Merchandising

E-Commerce (Phasing out July 2012)

Entrepreneurship

Global Business (Formerly Global Markets)

International Business and Marketing

Professional and Leadership Development

Sports and Entertainment Marketing 1

Web Page Design and Development 1

Web Page Design and Development 2

Marketing, Sales, and Service, work-based credit

NOTE: CIP codes and courses for Marketing, Sales, and Service Programs in Transition may be found on pages 66-67.

Science, Technology, Engineering, and Mathematics Program

Project Lead The Way – Pre-Engineering140101

Required Courses:

Introduction to Engineering Design
Principles of Engineering
Digital Electronics

Plus one or more of the following to meet state-recognized program requirements:

Computer Integrated Manufacturing
Engineering Design and Development
Aerospace Engineering
Biotechnical Engineering
Civil Engineering and Architecture
Science, Technology, Engineering, and Mathematics, work-based credit

Food Science and Dietetics190501

Required Courses:

Food Science and Dietetics 1
Food Science and Dietetics 2

Plus one or more of the following if needed to meet state-recognized program requirements:

Accounting 1
Business and Electronic Communication (Phasing out July 2012)
Child Development 1
Child Development 2
Foods and Nutrition 1
Foods and Nutrition 2
Food Processing
Human Development: Responsible Life Choices 1
Human Development: Responsible Life Choices 2
Marketing
Sports Nutrition 1 (Formerly Sports Nutrition)
Sports Nutrition 2
Human Services, work-based credit (Has been removed as option from list beginning with SY 2009-10)
Science, Technology, Engineering, and Mathematics, work-based credit

Transportation, Distribution, and Logistics Programs

Automotive Collision Repair Technology470603

Automotive Collision Repair Technology 1
Automotive Collision Repair Technology 2
Automotive Collision Repair Technology 3
Automotive Collision Repair Technology 4
Transportation, Distribution, and Logistics, work-based credit

Automotive Technology470604

Automotive Technology 1
Automotive Technology 2
Automotive Technology 3
Automotive Technology 4
Transportation, Distribution, and Logistics, work-based credit

Diesel Engine Technology (Formerly Diesel Engine Mechanics)470605

Diesel Engine Technology 1
Diesel Engine Technology 2
Diesel Engine Technology 3
Diesel Engine Technology 4
Transportation, Distribution, and Logistics, work-based credit

Small Engine Technology470606

Small Engine Technology 1
Small Engine Technology 2
Small Engine Technology 3
Small Engine Technology 4
Transportation, Distribution, and Logistics, work-based credit

CATE Programs in Transition for 2009-10

Business, Management, and Administration Programs in Transition

Administration and Information Support -----520400
(Phasing out as a CATE Program by July 2010)

Required courses:

Integrated Business Applications 1 and 2
Keyboarding

Plus one or more of the following:

Accounting	Digital Input Technologies
Administrative Support Technology	Document Processing
Business and Electronic Communication	Information Technology Foundations
Business and Marketing Internet Applications	Multimedia
Computer Programming	Virtual Enterprise
Desktop Publishing	Web Page Design and Development

Business Analysis -----520305
(Phasing out as a CATE Program by July 2010)

Required courses:

Accounting 1
Business and Personal Finance
Computer Applications or Integrated Business Applications
Keyboarding

Plus one or more of the following:

Business and Electronic Communication	E-Commerce
Business and Marketing Internet Applications	International Business and Marketing
Business Computer Mathematics	Virtual Enterprise
Business Law	

Business Financial Management and Accounting -----520300
(Phasing out as a CATE Program by July 2010)

Required courses:

Accounting 1 and 2
Computer Applications or Integrated Business Applications
Keyboarding

Plus one or more of the following:

Business and Electronic Communication	Entrepreneurship
Business and Personal Finance	International Business and Marketing
Business Computer Mathematics	Virtual Enterprise
Business Law	

Small Business Management-----520703
(Phasing out as a CATE Program by July 2010)

Required courses:

Computer Applications or Integrated Business Applications
Keyboarding
Virtual Enterprise 1 and 2

Plus one or more of the following:

Accounting I	Entrepreneurship
Business and Marketing Internet Applications	Marketing
Business and Personal Finance	Virtual Enterprise 3
Business Computer Mathematics	Virtual Enterprise 4
Business Law	Web Page Design and Development
E-Commerce	

Marketing, Sales, and Service Programs in Transition

E-Marketing-----520208
(Phasing out as a CATE Program by July 2010)

Required courses:

Computer Applications or Integrated Business Applications
E-Commerce
Keyboarding
Marketing

Plus one or more of the following:

Advertising	International Business and Marketing
Business and Electronic Communication	Marketing Management
Business and Marketing Internet Applications	Sports and Entertainment Marketing
Entrepreneurship	Web Page Design and Development

Global Marketing-----521403
(Phasing out as a CATE Program by July 2010)

Required courses:

Computer Applications **or** Integrated Business Applications
Global Markets
Keyboarding
Marketing **or** International Business and Marketing

Plus one or more of the following:

Business and Marketing Internet Applications	International Business and Marketing
Business Computer Mathematics	Marketing
Business Electronic Communication	Marketing Management
E-Commerce	Virtual Enterprise
Entrepreneurship	

Marketing Communications, Management, and Promotion -----521401
(Phasing out as a CATE Program by July 2010)

Required courses:

Computer Applications or Integrated Business Applications

Keyboarding

Marketing

**And
either** Fashion Merchandising

or Hospitality Management and Operations 1

or Marketing Management

or Sports and Entertainment Marketing

Plus one or more of the following:

Advertising

Business and Electronic Communication

Entrepreneurship

Fashion Merchandising

Hospitality Management and Operations 2

International Business and Marketing

Sports and Entertainment Marketing

Virtual Enterprise

Appendix D

Nontraditional CATE Programs

Nontraditional CATE Programs for Females	
CIP Code	Program Title
010205	Agricultural Mechanics and Technology
470201	Air Conditioning and Refrigeration Technology
151301	Architectural/Mechanical Design
470603	Automotive Collision Repair Technology
470604	Automotive Technology
460000	Building Construction Cluster
480703	Cabinetmaking
460201	Carpentry
470103	Communication Electronics
470101	Core Electronics
470605	Diesel Engine Technology (Formerly Diesel Engine Mechanics)
460301	Electricity
430203	Emergency and Fire Management Services
030101	Environmental and Natural Resources Management
520201	General Management
010601	Horticulture
470105	Industrial Electronics
151202	Information Support and Services
430107	Law Enforcement Services
480503	Machine Technology
460101	Masonry
150404	Mechatronics Integrated Technologies
480501	Metal Fabrication
110901	Networking Systems
011101	Plant and Animal Systems
460503	Plumbing
110201	Programming and Software Development
140101	Project Lead The Way
470606	Small Engine Technology
480508	Welding Technology

Nontraditional CATE Programs for Males	
CIP Code	Program Title
520401	Administrative Services
120401	Cosmetology
131210	Early Childhood Education
190501	Food Science and Dietetics
120410	Nail Technology

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